Table 4-4. Comparison of 1998-99 Results with Standards

Class	Constituent	DL	Units	Standards: Ocean Plan[f,g]	Standards: Basin Plan[g]	Standards: California Toxics Rule[a]	Mass Emission: No. of Samples	Mass Emission: Percent Detects	Mass Emission: Mean	Mass Emission: Median	Mass Emission: CV
Conventional											
	Cyanide	0.01	mg/l	0.01		0.022	46	24	0.01	0.01	2.76
	TPH	1	mg/l				46	43	1.3	0.5	1.20
	Oil and Grease	1	mg/l		Waters shall not contain concentrations that cause nuisance, or that otherwise adversely affect beneficial use.		46	48	2.8	0.5	2.57
	Total Phenols	0.1	mg/l				46	2	n/m	n/m	n/m
Indicator Bacteria											
	Total Coliform	20	MPN/100ml	[e]1,000 organisms/100 ml provided that not more than 20% of the samples at any sampling station may exceed 1,000/100 ml and provided that no single sample when verified by a repeat sample taken within 48 hours shall exceed 10,000/100	[e]For all waters where shellfish are harvested, concentration shall not exceed 70/100 ml, nor shall more than 10% of the samples collected exceed 230/100 for a 5-tube decimal dilution test		46	93	411490	240000	1.99
	Fecal Coliform	20	MPN/100ml	[e] Shall not exceed a geometric mean of 200 organisms per 100 ml nor shall more than 10% of the total samples during any 60-day period exceed 400 per 100 ml.	Shall not exceed a log mean of 200/100 ml (min. of 4 samples for any 30-day period), nor shall more than 10% of samples collected during any 30-day period exceed 400/100 ml.		46	93	61682	9000	1.97
	Fecal Streptococcus	20	MPN/100ml				46	93	143512	31500	1.94
General											
	Ammonia	0.1	mg/l	6	6.8		57	61	0.7	0.2	1.89
	Calcium	1.0	mg/l				59	100	57	48	0.70
	Magnesium	1.0	mg/l				59	100	23	15	1.09
	Potassium	1.0	mg/l				59	100	4.6	4.3	0.38
	Sodium	1.0	mg/l				59	100	53	40	0.86
	Bicarbonate	2.0	mg/l				59	100	104	93	0.55
	Carbonate	2.0	mg/l				59	3	n/m	n/m	n/m
	Chloride	2.0	mg/l				59	98	56	47	0.83
	Fluoride	0.1	mg/l				59	90	0.2	0.3	0.58
	Nitrate	0.1	mg/l				59	97	7.7	6.0	0.97
	Sulfate	0.1	mg/l				59	98	124	76	1.20
	Alkalinity	4.0	mg/l				59	100	105	93	0.55
	Hardness	2.0	mg/l				59	100	233	176	0.86
	Dissolved Phosphorus	0.05	mg/l				56	96	0.3	0.2	0.63
	Total Phosphorus	0.05	mg/l	Nutrient Materials: shall not cause objectionable aquatic growths or degrade indigenous biota.	Shall not cause objectionable aquatic growths or degrade indigenous biota.		56	98	0.4	0.3	0.63
	COD	5	mg/l				59	97	62	51	0.65
	pH	0-14		Shall not be changed at any time more than 0.2 units from that which occurs naturally	pH of bays or estuaries shall not be depressed below 6.5 or raised above 8.5.		59	100	7.7	7.7	0.06
	NH3-N	0.1	mg/l	6			57	58	0.6	0.2	1.88
	Nitrate-N	0.1	mg/l				59	95	1.7	1.4	0.97
	Nitrite-N	0.1	mg/l				59	71	0.3	0.1	1.16
	TKN	0.1	mg/l				59	98	3.6	3.1	0.66
	Specific Conductance	1.0	umhos/cm				58	100	751	569	0.84
	Total Dissolved Solids	2.0	mg/l				58	100	475	357	0.83

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Class	Constituent	DL	Units	Standards			Mass Emission				
				Ocean Plan[f,g]	Basin Plan[g]	California Toxics Rule[a]	No. of Samples	Percent Detects	Mean	Median	CV
	Turbidity	0.1	NTU		Where natural turbidity is between 0 and 50 NTU, increases shall not exceed 20%; Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.		58	100	79	54	1.01
	Total Suspended Solids	2.0	mg/l				59	100	154	92	1.12
	Volatile Suspended Solids	1.0	mg/l				59	98	36	23	1.03
	MBAS	0.05	mg/l		0.5 mg/L for waters designated MUN		57	100	0.1	0.1	1.31
	Total Organic Carbon	1.0	mg/l				53	100	10	7.0	0.81
	BOD	2.0	mg/l				53	94	33	19	1.50
Metals											
	Dissolved Aluminum	100	µg/l				59	19	n/m	n/m	n/m
	Total Aluminum	100	µg/l				59	95	503	200	2.11
	Dissolved Antimony	5	µg/l				59	3	n/m	n/m	n/m
	Total Antimony	5	µg/l	1200[b]		4300	59	3	n/m	n/m	n/m
	Dissolved Arsenic	5	µg/l				59	2	n/m	n/m	n/m
	Total Arsenic	5	µg/l	80			59	3	n/m	n/m	n/m
	Dissolved Barium	10	µg/l				59	95	44	40	0.48
	Total Barium	10	µg/l				59	95	56	51	0.64
	Dissolved Beryllium	1	µg/l				59	1	n/m	n/m	n/m
	Total Beryllium	1	µg/l	0.033			59	1	n/m	n/m	n/m
	Dissolved Boron	100	µg/l				59	92	259	241	0.51
	Total Boron	100	µg/l				59	97	322	307	0.47
	Dissolved Cadmium	1	µg/l	10		2.9	59	3	n/m	n/m	n/m
	Total Cadmium	1	µg/l				59	12	n/m	n/m	n/m
	Dissolved Chromium	5	µg/l				59	3	n/m	n/m	n/m
	Total Chromium	5	µg/l				59	15	n/m	n/m	n/m
	Dissolved Chromium +6	10	µg/l			16	59	5	n/m	n/m	n/m
	Total Chromium +6	10	µg/l	20			59	5	n/m	n/m	n/m
	Dissolved Copper	5	µg/l			4.8	59	53	5.7	5.5	0.66
	Total Copper	5	µg/l	30			58	98	12	10	0.61
	Dissolved Iron	100	µg/l				59	34	154	50	2.39
	Total Iron	100	µg/l				59	85	653	255	2.21
	Dissolved Lead	5	µg/l			50	59	3	n/m	n/m	n/m
	Total Lead	5	µg/l	20			59	14	n/m	n/m	n/m
	Dissolved Manganese	100	µg/l				59	50	50.0	50.0	0.00
	Total Manganese	100	µg/l				59	24	89	50	1.00
	Dissolved Mercury	1	µg/l				59	1	n/m	n/m	n/m
	Total Mercury	1	µg/l	0.4		0.051	59	1	n/m	n/m	n/m
	Dissolved Nickel	5	µg/l			74	59	8	n/m	n/m	n/m
	Nickel	5	µg/l	50			59	41	5.4	2.5	0.85
	Dissolved Selenium	5	µg/l				59	3	n/m	n/m	n/m
	Total Selenium	5	µg/l	150		290	59	14	n/m	n/m	n/m
	Dissolved Silver	1	µg/l			2.1	59	2	n/m	n/m	n/m
	Total Silver	1	µg/l	7			59	3	n/m	n/m	n/m
	Dissolved Thallium	5	µg/l				59	3	n/m	n/m	n/m
	Total Thallium	5	µg/l	14[b]		6.3	59	3	n/m	n/m	n/m
	Dissolved Zinc	50	µg/l			86	59	25	37	25	0.61
	Total Zinc	50	µg/l	200			59	59	69	52	1.00

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Class Constituent	DL	Units	Standards			Mass Emission				
			Ocean Plan[f,g]	Basin Plan[g]	California Toxics Rule[a]	No. of Samples	Percent Detects	Mean	Median	CV
Semi-Volatile Organics										
Bis(2-ethylhexyl)phthalate	3	µg/l	3.5			19	100	19.3	3.1	2.25
All other SVOCs	0.5-5.0	µg/l				19	0	n/m	n/m	n/m
Pesticides										
Organochlorine Pesticides &	0.05-2.0	µg/l								
PCBs	0.5	µg/l	0.000019[c]	70 pg/l[d]	0.00017	15	0	n/m	n/m	n/m
Diazinon	0.01	µg/l				56	21	0.07	0.01	2.31
Chlorpyrifos	0.05	µg/l				56	0	n/m	n/m	n/m
Other N- and P-Containing Pesticides	1.0-2.0	µg/l				56	0	n/m	n/m	n/m
Carbofuran	5	µg/l				57	0	n/m	n/m	n/m
Chlorinated Herbicides & Bentazon										
2,4-D	10	µg/l				18	0	n/m	n/m	n/m
2,4,5-TP	1	µg/l				18	0	n/m	n/m	n/m
Bentazon	2	µg/l				18	0	n/m	n/m	n/m
Glyphosate	25	µg/l				58	5	n/m	n/m	n/m

n/m = Not meaningful, not enough data above detection limit collected

a) Assume acute criteria for freshwater and saltwater organisms, and organism consumption for human health criteria
b) Maximum Contaminant Level is based on 30-day averages
c) Sum of chlorinated biphenyls whose analytical characteristics resemble those of Aroclor-1016, Aroclor-1221, Arochor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1261
d) 70 pg/l (30-day average) to protect human health and 14 ng/l and 30 ng/l to protect aquatic life in inland fresh waters and estuarine waters respectively
e) Based on a minimum of not less than five samples for any 30-day period
f) Assume criteria based on daily maximum
g) There are no numerical water quality standards that apply to stormwater or "non-point source" pollution. Current federal and state standards apply only to "point source pollution," such as sanitary sewage, industrial and commercial discharges to the ocean, and other waterbodies. Water quality standards described in the 1995 Los Angeles Region Basin Plan or the 1997 California Ocean Plan do not apply to stormwater runoff, and any exceedance of values should not indicate violation nor noncompliance with the plans. Furthermore, a direct comparison of the sampling results with the Ocean Plan standards cannot be made since the results presented in the table are detected values before dilution, a factor allowed by the Ocean Plan.